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10/537,195

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Martin W. Beale

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MORRISON & FOERSTER LLP
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EXAMINER

TRAN, PABLO N

ART UNIT

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2618

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09/04/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/537,195	Applicant(s) BEALE, MARTIN W.	
	Examiner Pablo N. Tran	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-93 is/are pending in the application.
- 4a) Of the above claim(s) 69-90 and 93 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-68, 91 and 92 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group 1 (claims 1-668 and 91-92) in the reply filed on 06/12/08 is acknowledged.
2. Claims 69-90 and 93 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group II, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 06/12/08.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claims 7, 30, 53 recite the limitation "the beacon data". There is insufficient antecedent basis for this limitation in the claim.
5. Claims 9-10, 32-33, 55-56 recite the limitation "the first and second". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

7. Claims 1-5, 9-15, 23-28, 32-39, 46-51, 55-61, and 91-92 are rejected under 35 U.S.C. 102(a) as being anticipated by Nasshan et al. (hereinafter “Nasshan”, EP0876008).

As per claims 1, 24, 47, and 91-92, Nasshan disclose a method for supporting of a plurality of chip rates in a code division multiple access (CDMA) system between a plurality of user equipment (UE) sharing a plurality of timeslots in a frame, wherein allocating to a UE at least one timeslot of the plurality of timeslots in the frame at one of the plurality of chip rates based on a chip rate capability of the UE (see pg. 2/ln. 43-55).

As per claims 2, 25, 48, Nasshan disclose allocating by the CDMA a timeslot for use by at least one of the plurality of chip rates (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 3, 26, 49, Nasshan disclose the UE is capable of operating at a plurality of chip rates (pg. 6/ln. 42-58).

As per claims 4, 27, 50, Nasshan disclose the plurality of chip rates are integer multiples of a lowest supported chip rate (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 5, 28, 51, Nasshan disclose autonomously detecting, by the UE, a chip rate of an allocated timeslot (pg. 6/ln. 42-58).

As per claims 9, 32, 55, Nasshan disclose the first and second of the plurality of chip rates are controlled independently of each other (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 10, 33, 56, Nasshan disclose the first and second of the plurality of chip rates are commonly controlled (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 11, 34, 57, Nasshan disclose transmitting a plurality of instantiations of the at least a first one of the plurality of timeslots in the frame operating at the first chip rate (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 12, 35, 58, Nasshan disclose the plurality of instantiations are separated in the frequency domain (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 13, 36, 59, Nasshan disclose the number of the plurality of instantiations is proportional to the ratio of the bandwidth or the second chip rate system to the bandwidth of the first chip rate system (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 14, 37, 60, Nasshan disclose the first chip rate system operates at substantially the same carrier frequency as the second chip rate system (pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 15, 38, 61, Nasshan disclose transmitting to the UE parameters of timeslots via broadcast signaling (pg. 6/ln. 20-41).

As per claims 16, 39, 62, Nasshan disclose the system is a UMTS TDD and the step of transmitting to the UE parameters of timeslots comprises transmitting signals broadcast in system information blocks (fig. 2-3).

As per claims 23, 46, Nasshan disclose the UE receiving the transmitted frame receives an indication of the chip rate applied in a timeslot (pg. 6/ln. 42-58).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 6-8, 17-22, 29-31, 40-45, 52-54, and 63-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nasshan et al. (hereinafter "Nasshan", EP0876008) in view of Fischer (US Pat. No. 5,371,734)

As per claims 6, 29, 52, Nasshan does not specifically disclose that the frame comprises beacon data in at least one of the plurality of timeslots. However, Fischer disclose such claimed limitation (fig. 14). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention for Nasshan to incorporate such signaling method, as taught by Fischer, in order to conserve power.

As per claims 7, 30, 53, the modified communication system of Nasshan and Fischer further disclosed the beacon data is in one of the plurality of timeslots operating at the lowest of the plurality of chip rates (see Nasshan, pg. 5/ln. 3-pg. 6/ln. 2, see Fischer, fig. 14).

As per claims 8, 31, 54, the modified communication system of Nasshan and Fischer further disclosed the frame comprises first beacon data in one of the plurality of timeslots operating at the first one of the plurality of chip rates and second beacon data in another of the plurality of timeslots operating at the second one of the plurality of chip rates (see Nasshan, pg. 5/ln. 3-pg. 6/ln. 2, see Fischer, fig. 14).

As per claims 17, 40, 63, the modified communication system of Nasshan and Fischer further disclosed transmitting to the UE parameters of timeslots via point to point signaling (see Fischer, col. 10/ln. 61).

As per claims 18, 41, 64, the modified communication system of Nasshan and Fischer further disclosed the point to point signaling defines the timeslot parameters for a single allocation (see Nasshan, pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 19, 42, 65, the modified communication system of Nasshan and Fischer further disclosed the point to point signaling defines the timeslot parameters for a multiplicity of allocations (see Nasshan, pg. 5/ln. 3-pg. 6/ln. 2).

As per claims 20, 43, 66, the modified communication system of Nasshan and Fischer further disclosed the system comprises a UMTS TDD system, and the point to point signaling is carried in radio resource control (RAC) messages (see Fischer, abstract).

As per claims 21, 44, 67, the modified communication system of Nasshan and Fischer further disclosed the system comprises a UMTS TDD system, and the point to point signaling is carried in medium access control (MAC) message (see Fischer, abstract).

As per claims 22, 45, 68, the modified communication system of Nasshan and Fischer further disclosed the system comprises a UMTS TDD system, and the point to point signaling is carried in physical layer messages (see Fischer, col. 11/ln. 1-20).

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (571)272-7898. The examiner normal hours are 9:30 -5:00 (Monday-Friday). If attempts to reach the

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examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571)272-7899. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) System. Status information for Published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-directauspto.gov>. Should You have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (in USA or CANADA) or 571-272-1000.

August 31, 2008

/Pablo N Tran/

Primary Examiner, Art Unit 2618